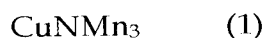


CLAIMS

What is claimed is:

1. A method for preparing manganese-based nitride expressed by the
5 following formula (1) having a cubic antiperovskite structure, wherein a
mixture of Mn_2N and Cu is placed into a quartz tube, evacuated, sealed, and
sintered at 800-900°C for 40-60 hr.



- 10 2. The method for preparing manganese-based nitride according to claim 1,
wherein amount of Mn_2N is used in the molar ratio of 1.45-1.55 per mole of
copper.

- 15 3. The method for preparing manganese-based nitride according to claim 1,
wherein the temperature is raised with a rate of 40-50°C/h in the sintering
process.

4. The method for preparing manganese-based nitride according to claim 1,
wherein said mixture is wrapped with titanium foil before placed into quartz
20 tube.

5. A manganese-based nitride of the formula (1) prepared according to one of
claims 1 to 4 has temperature coefficient of resistivity of 40-50 ppm/K and a
cubic antiperovskite structure.

